

FIG.1

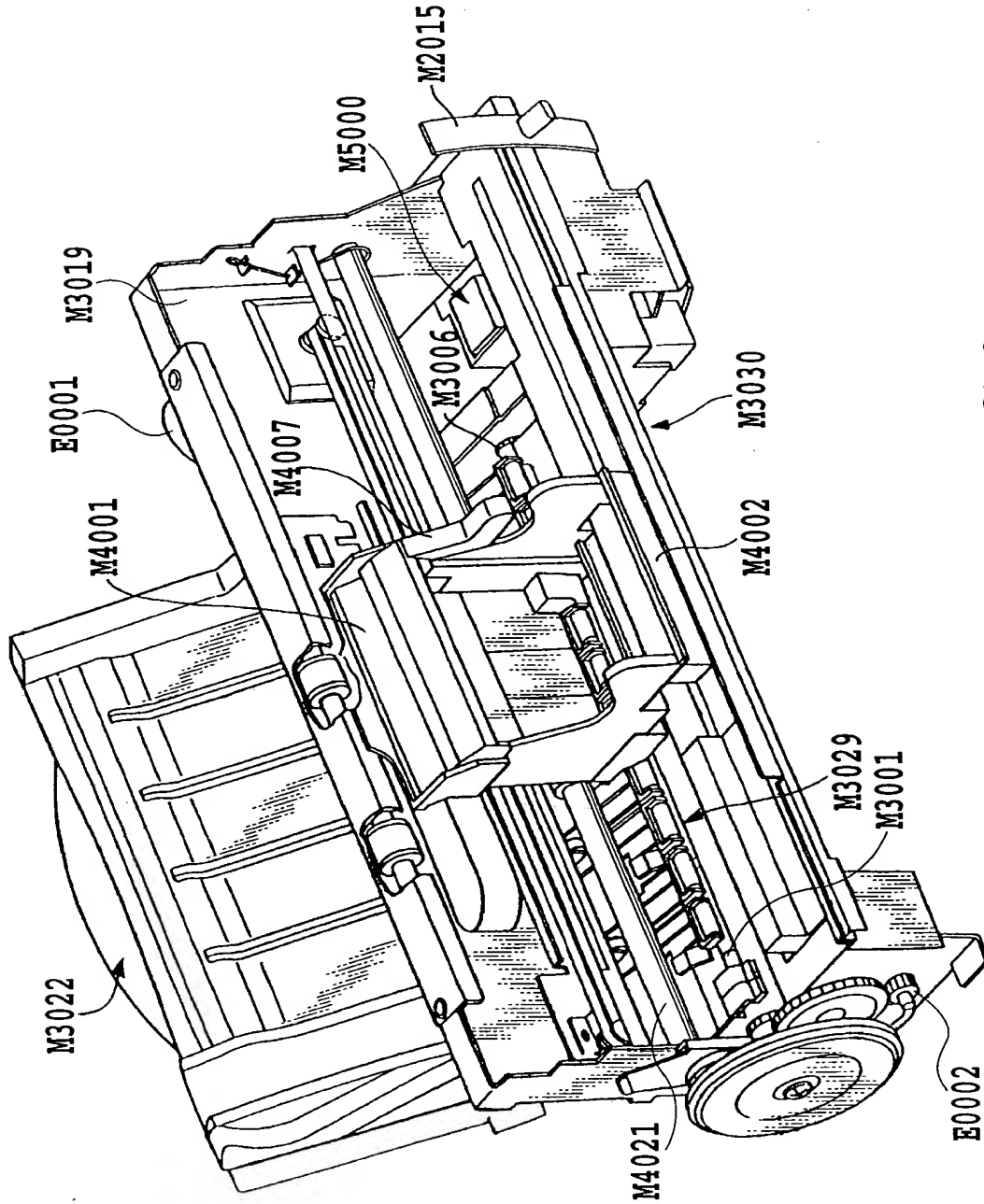


FIG. 2

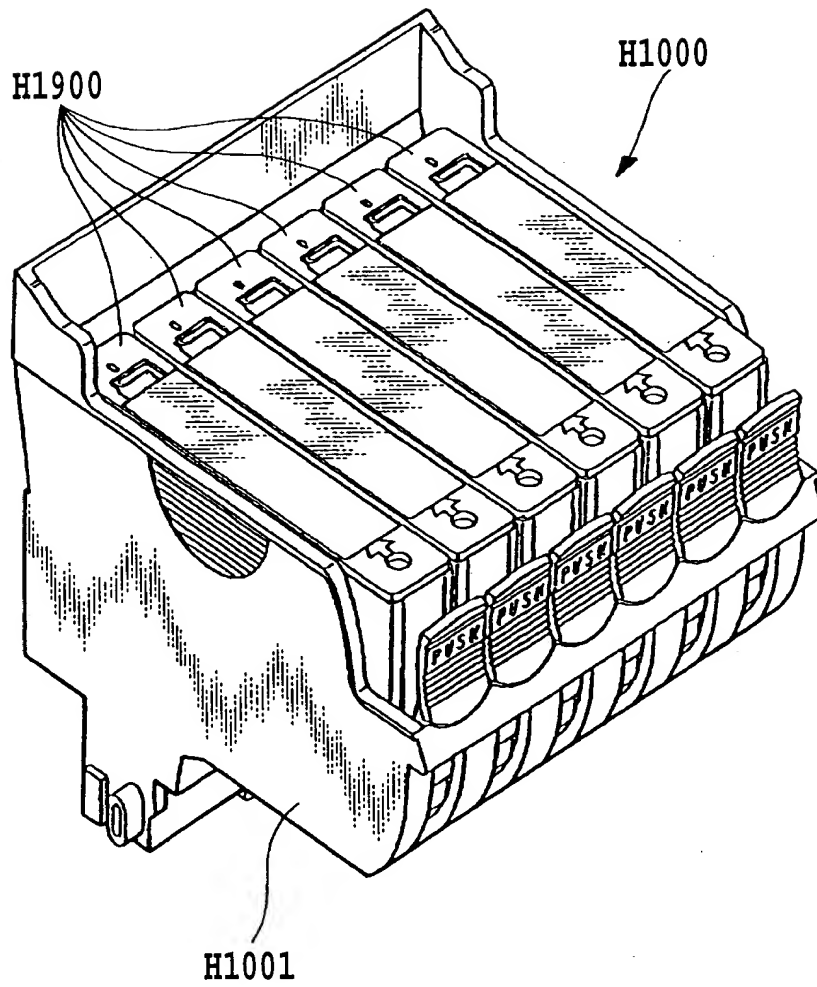


FIG.3

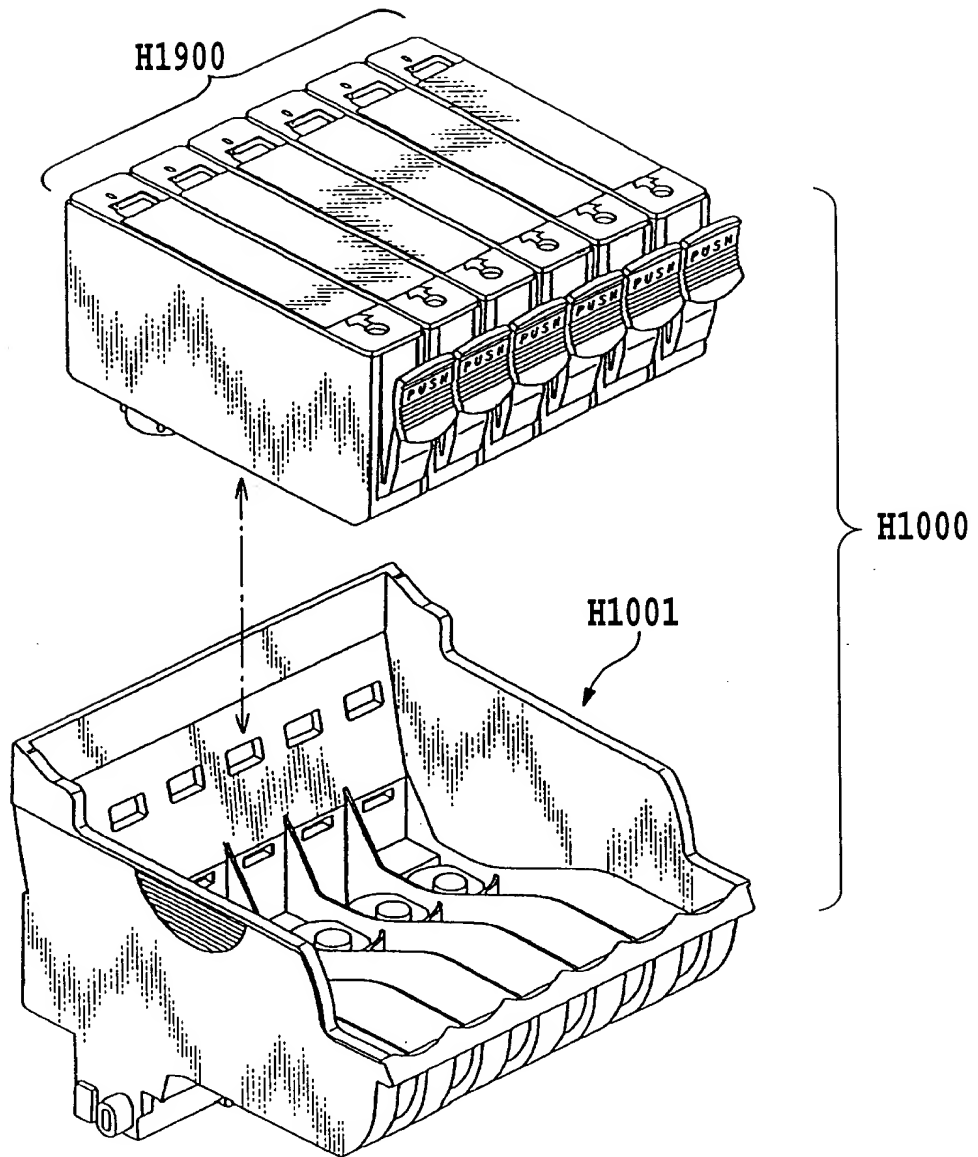


FIG.4

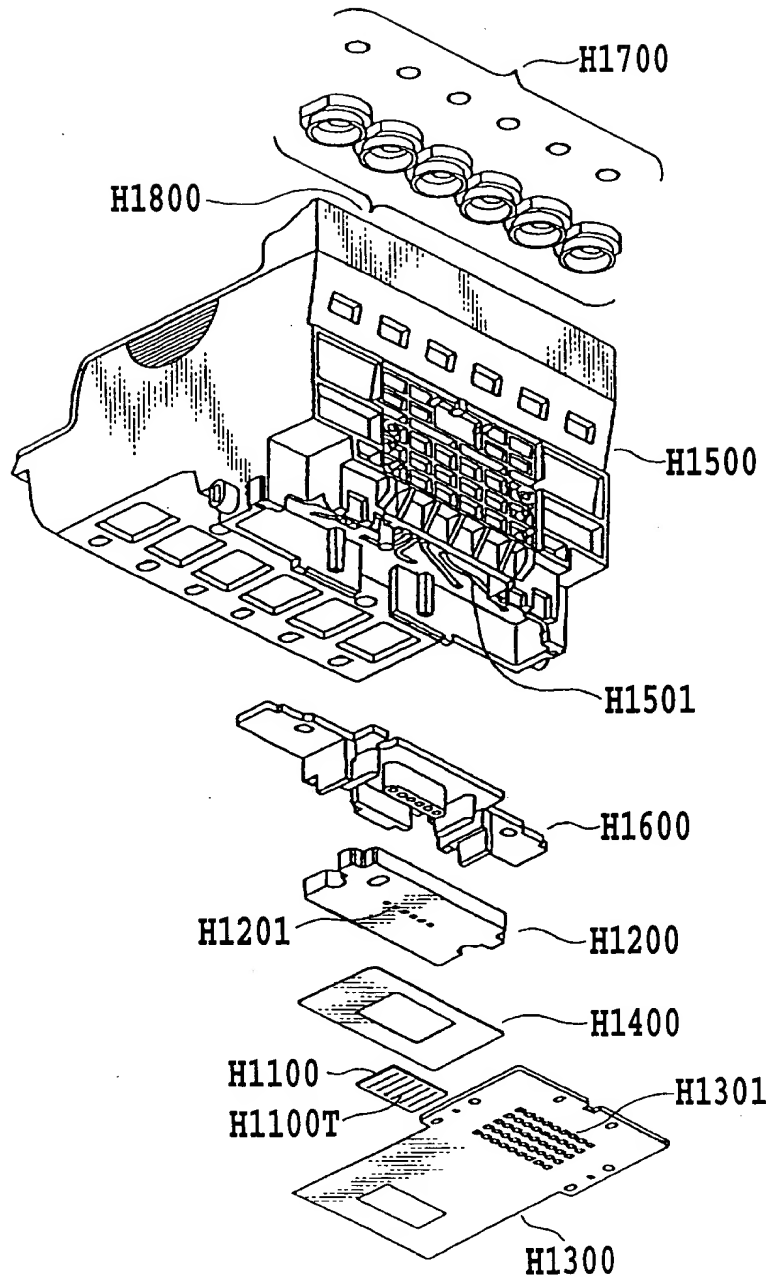


FIG.5

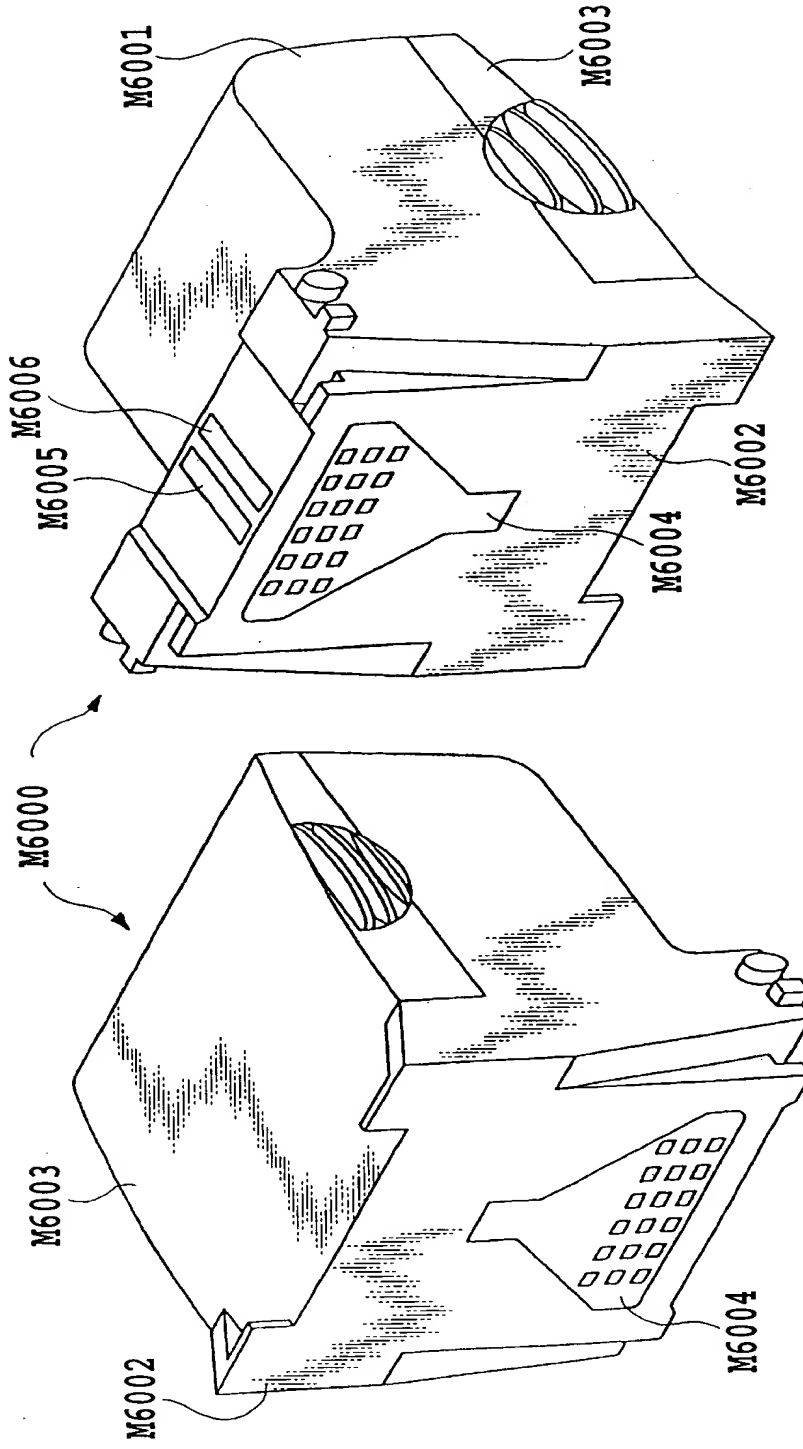


FIG.6A

FIG.6B

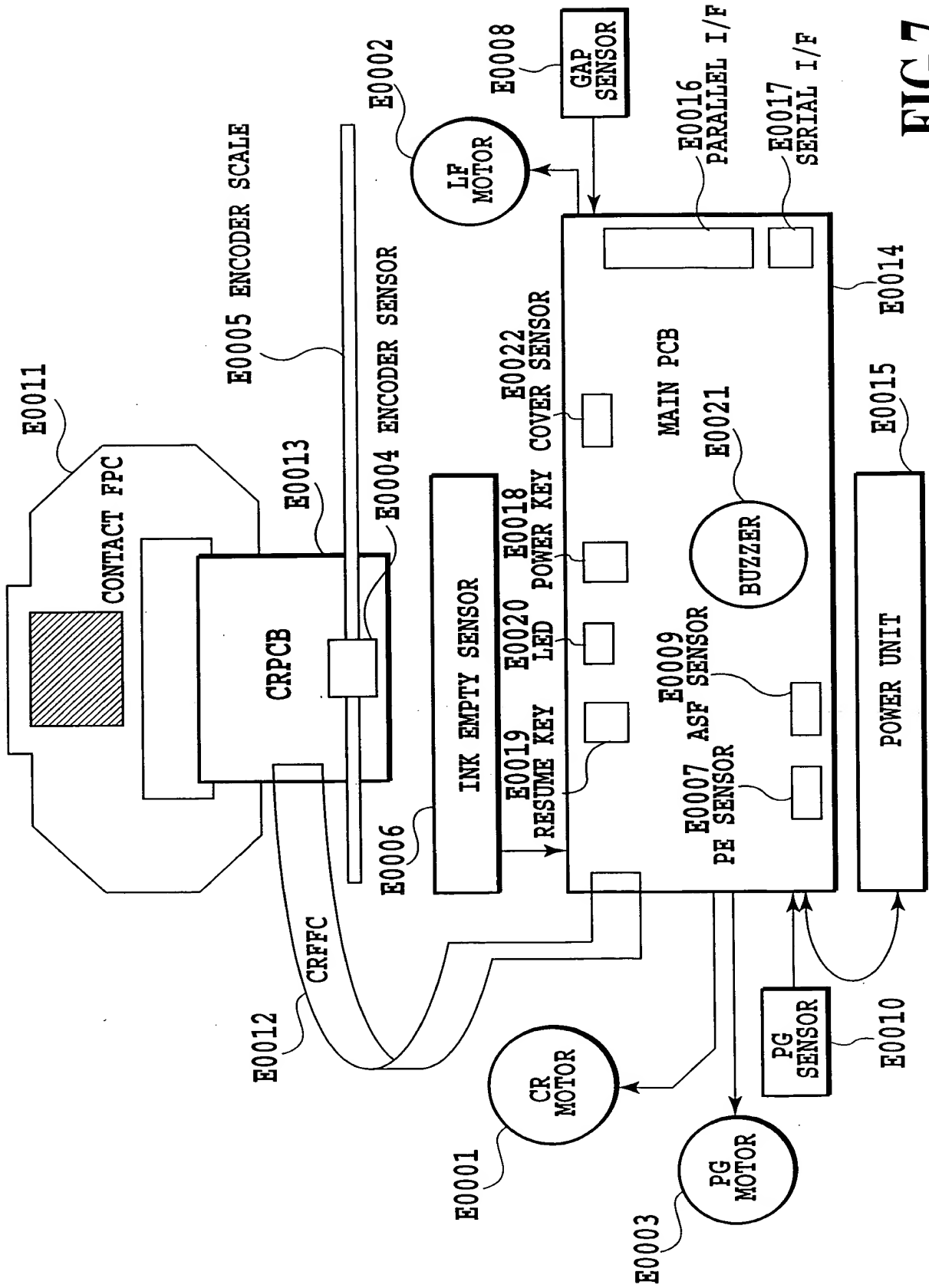


FIG.7

FIG.8

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FIG.8A FIG.8B

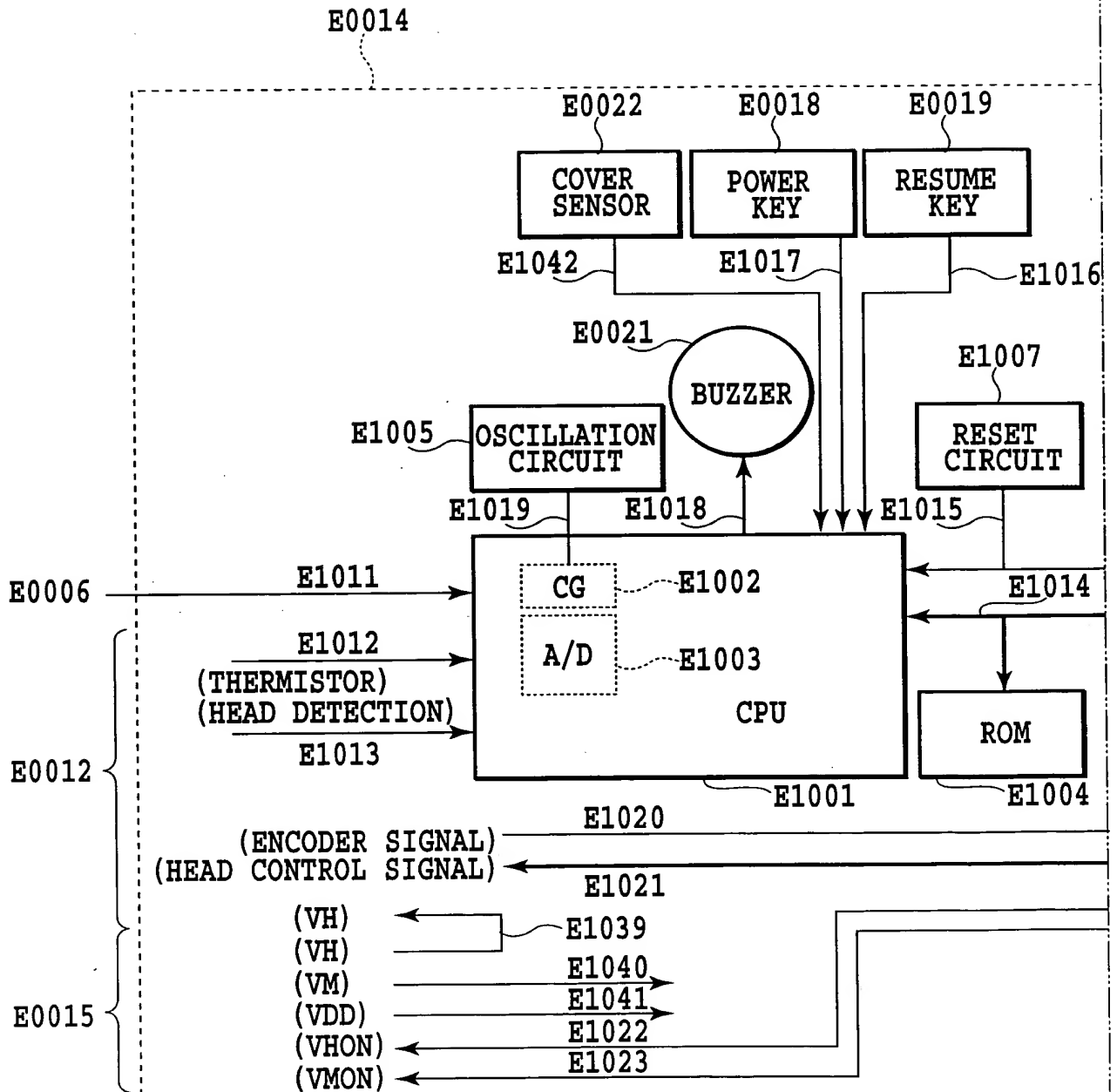


FIG.8A

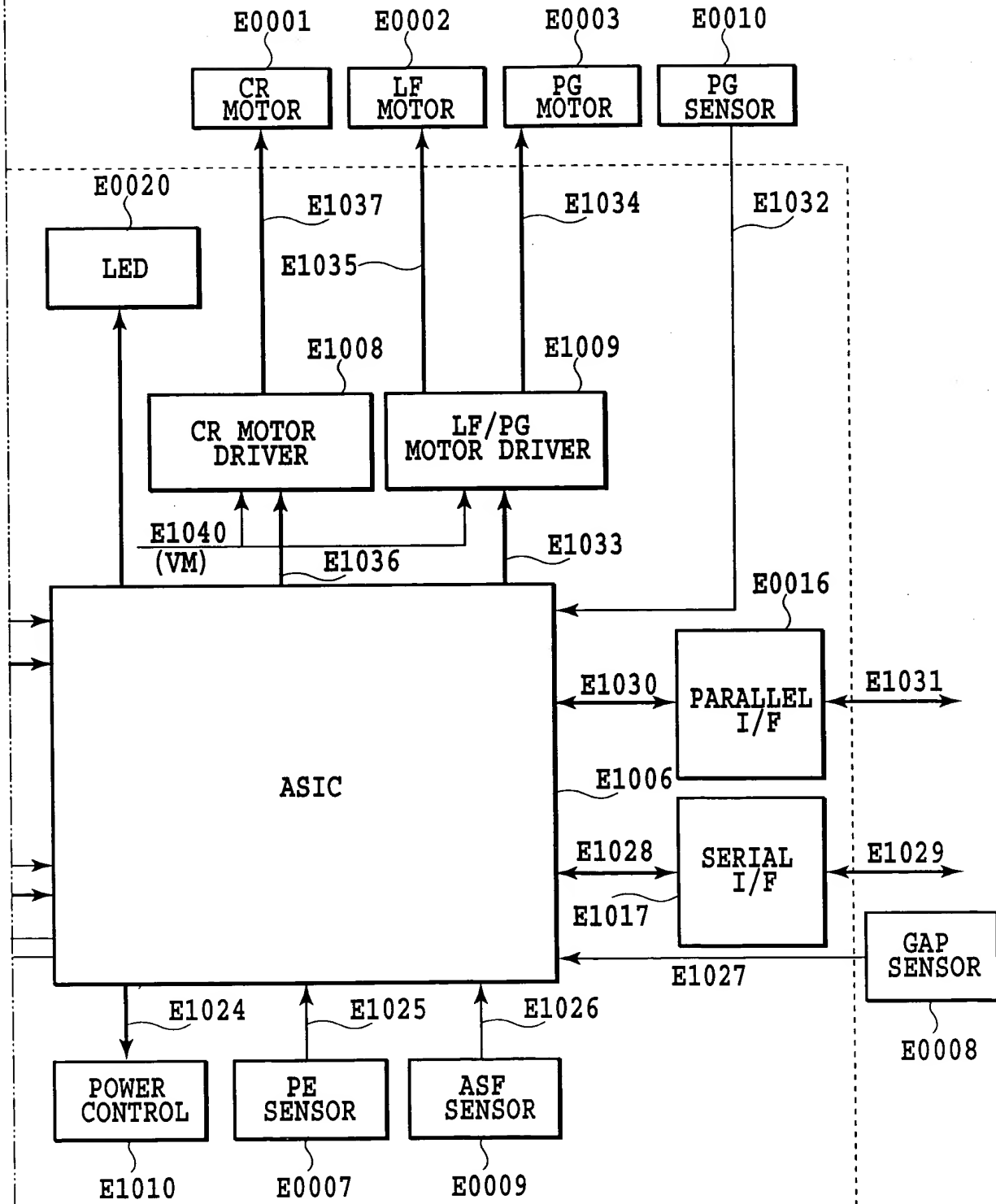


FIG.8B

FIG.9

FIG.9A FIG.9B

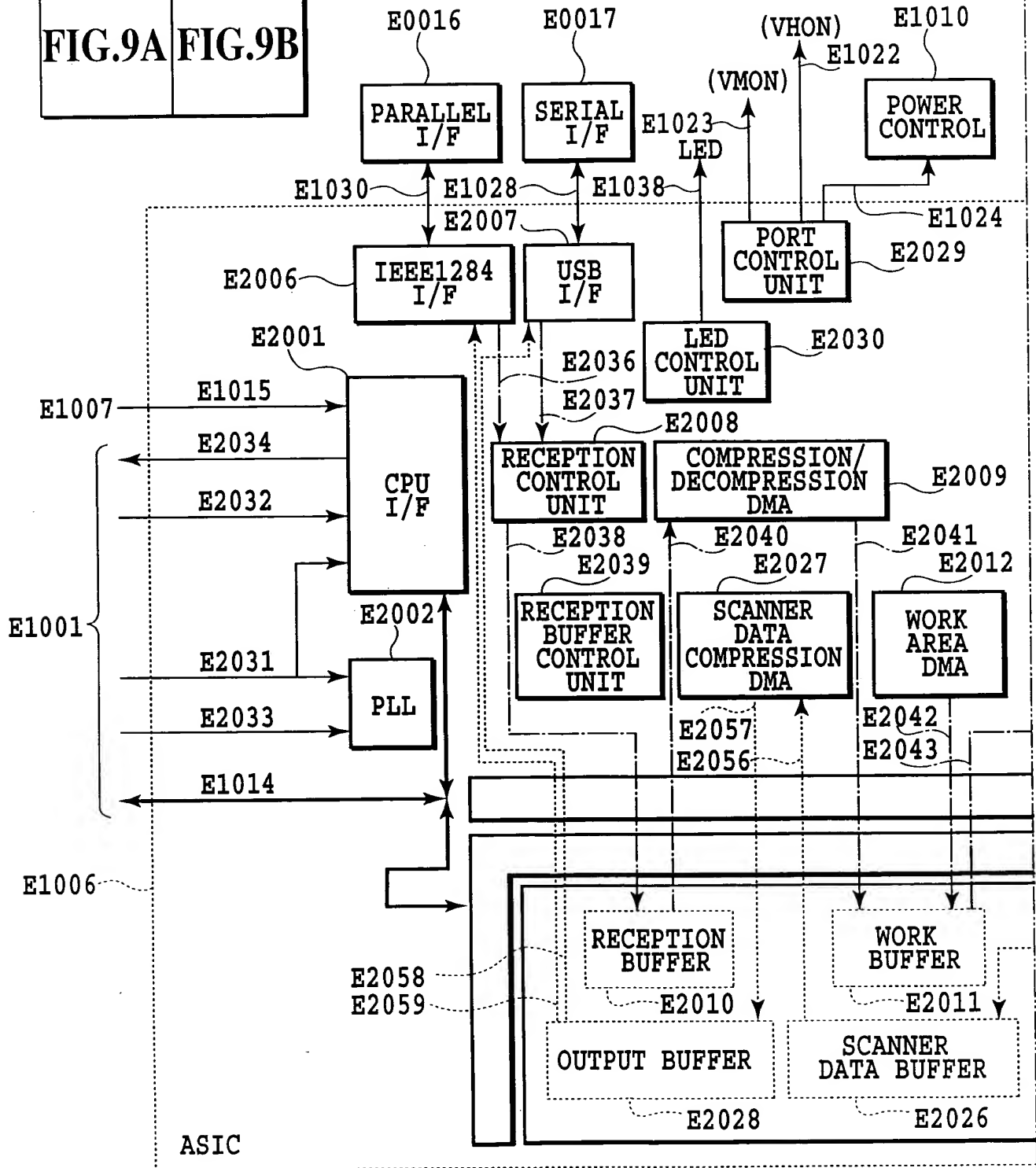


FIG.9A

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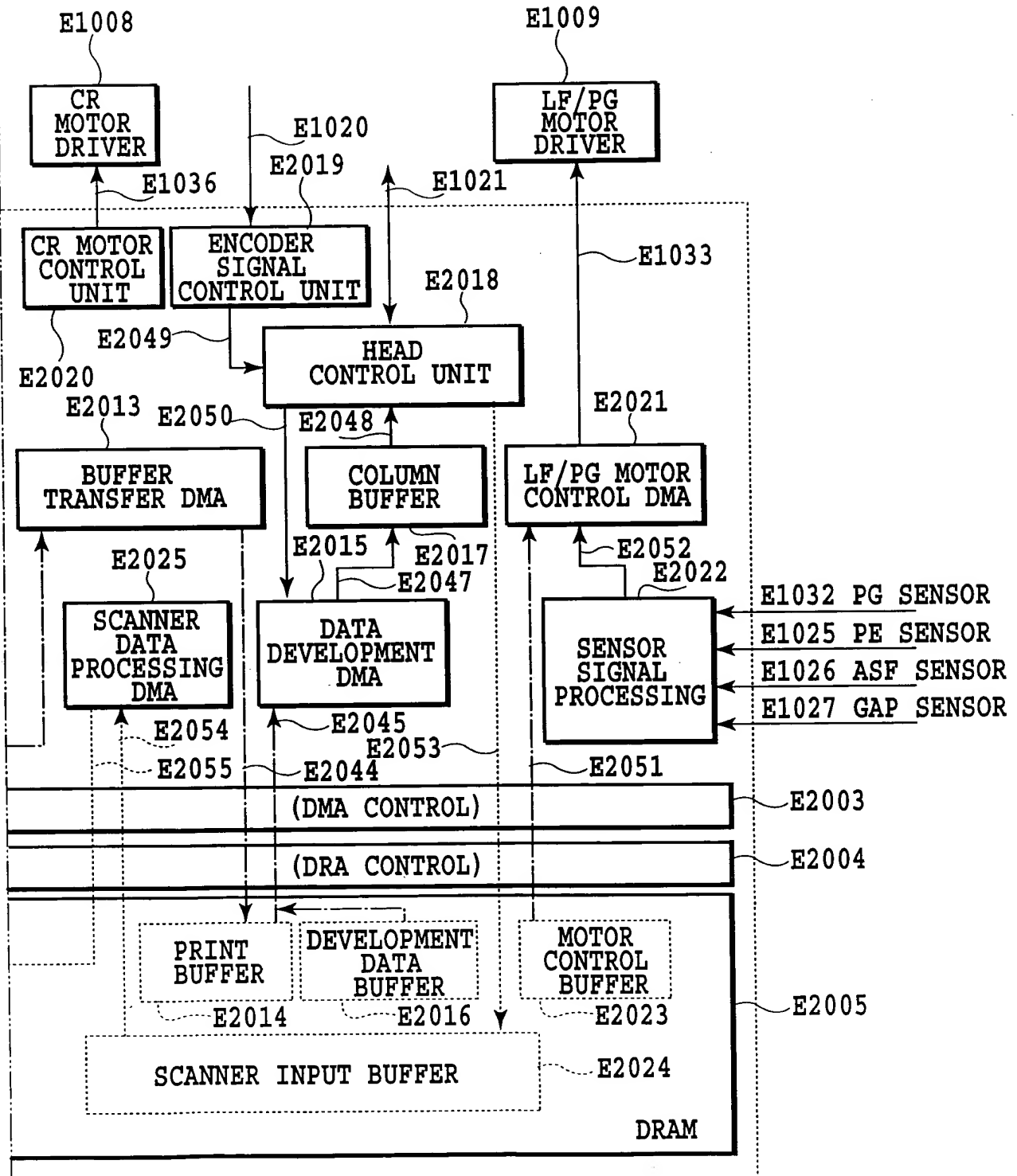


FIG.9B

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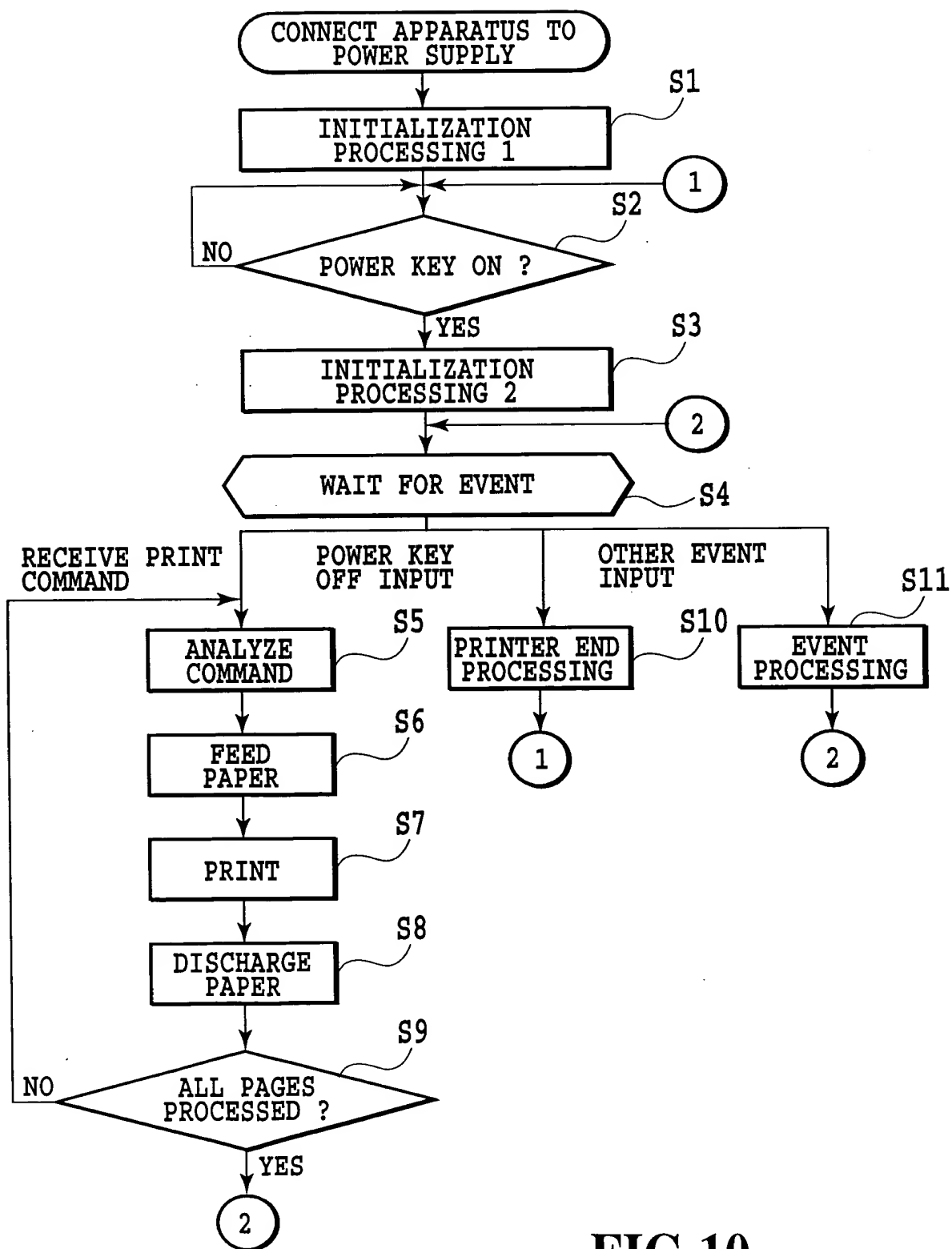


FIG.10

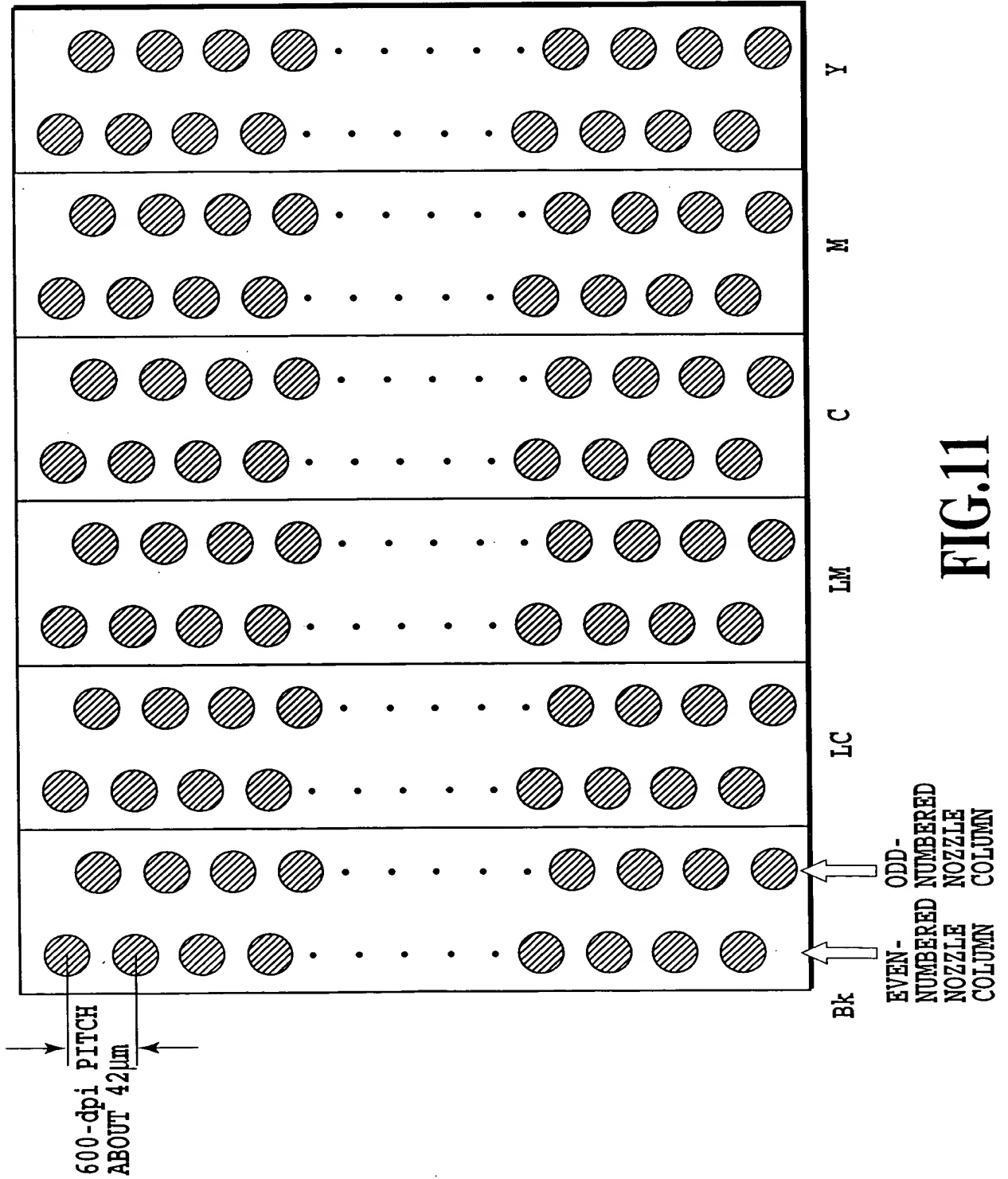


FIG.11

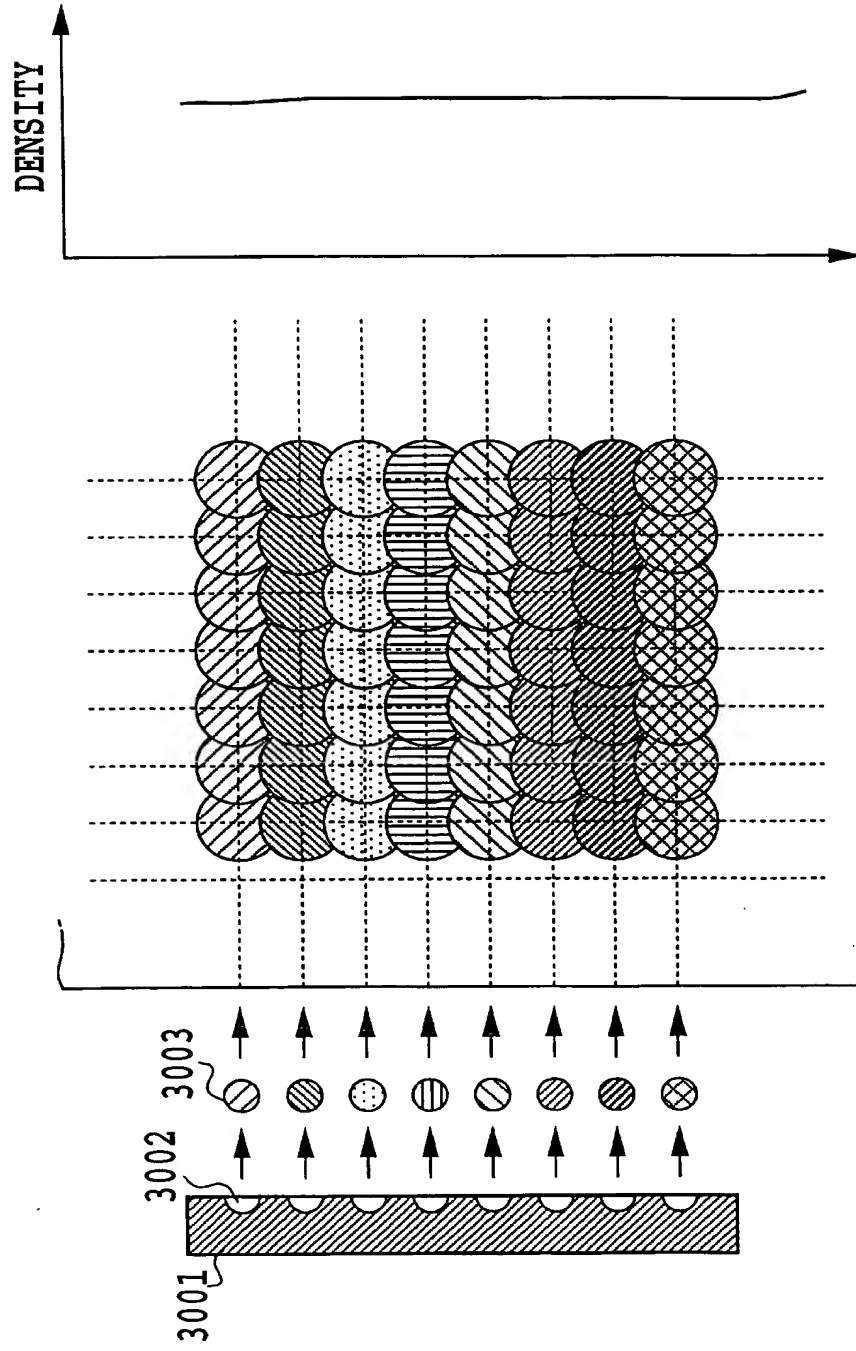


FIG.12A

FIG.12B

FIG.12C

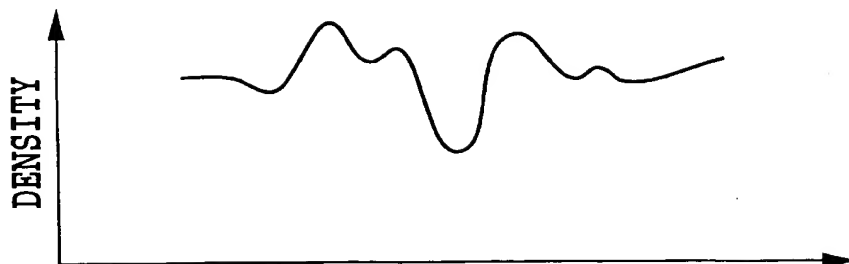


FIG.13C

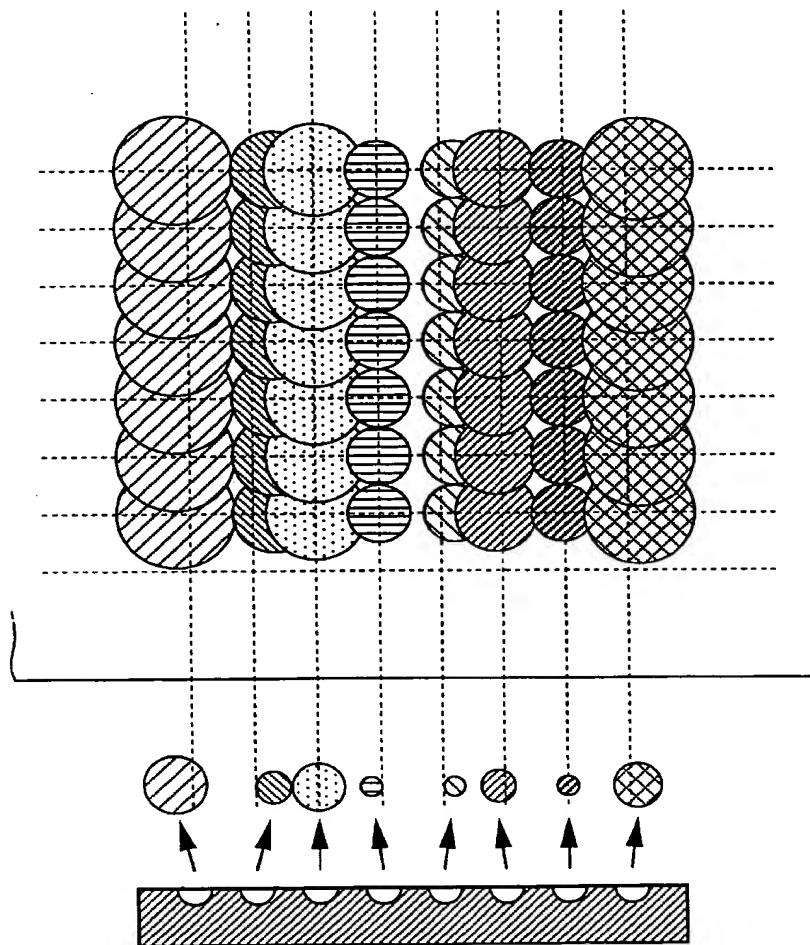


FIG.13B

FIG.13A

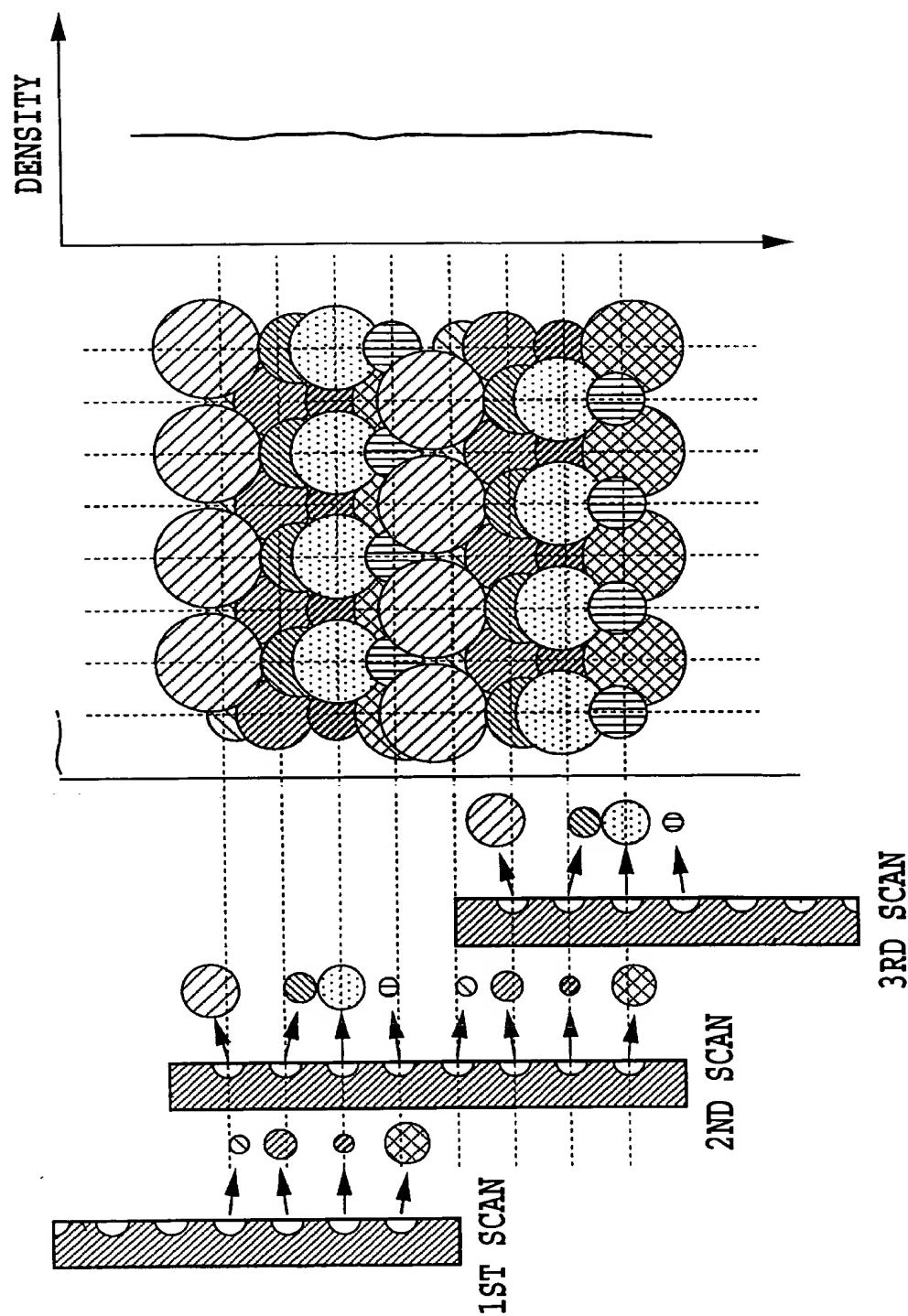


FIG.14A

FIG.14B

FIG.14C

1WORD

MSB

LSB

| | |
|--------------------------------|--|
| HEAD VERSION INFORMATION | |
| FRAME NUMBER | |
| HEAD SERIAL NUMBER | |
| HEAD DRIVE CONDITION | |
| BI-DIRECTIONAL REGISTRATION | INTERCOLOR REGISTRATION REGISTRATION BETWEEN EVEN-AND ODD-NUMBERED RASTERS |
| EJECTION FAILURE INFORMATION | |
| EJECTION INFORMATION | |
| ERROR CHECK | |

FIG.15

FIG.15A

FIG.15B

FIG.15A

| | |
|---|-------------------------|
| | |
| HEAD VERSION INFORMATION | |
| FRAME NUMBER | |
| HEAD SERIAL NUMBER | |
| | |
| HEAD DRIVE CONDITION | |
| BI-DIRECTIONAL REGISTRATION | INTERCOLOR REGISTRATION |
| REGISTRATION BETWEEN EVEN-AND ODD-NUMBERED RASTERS | |
| EJECTION FAILURE INFORMATION | |
| EJECTION INFORMATION | |
| ERROR CHECK | |

FIG.15B

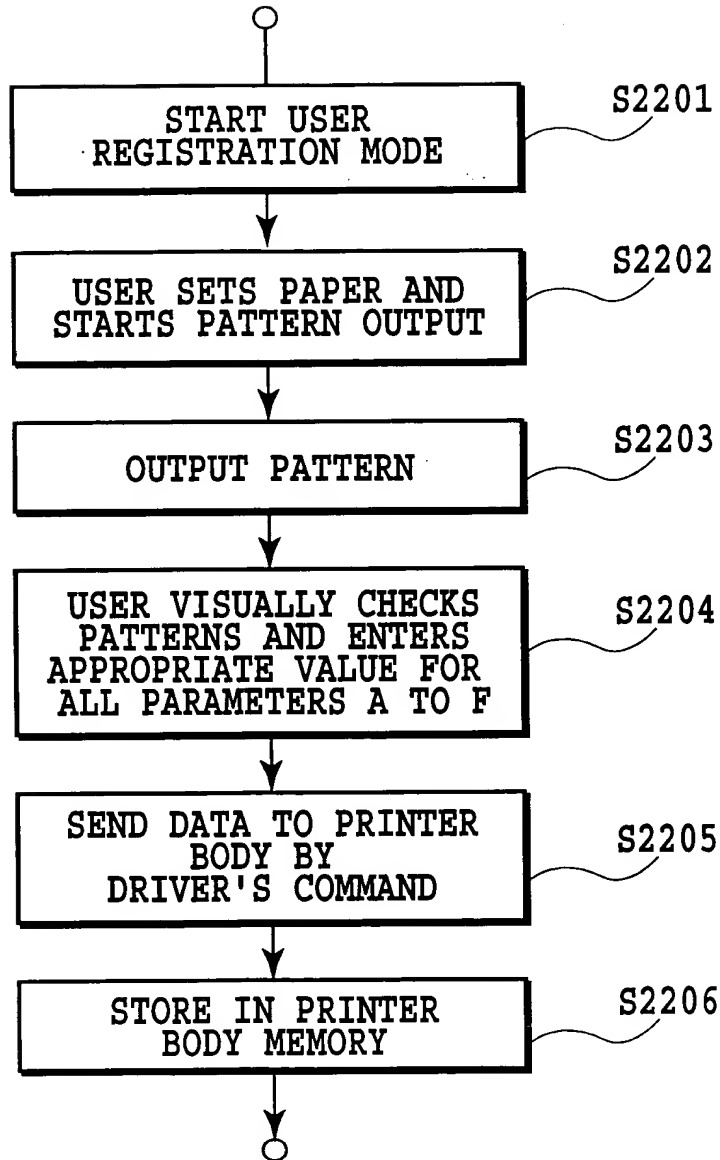


FIG.16A

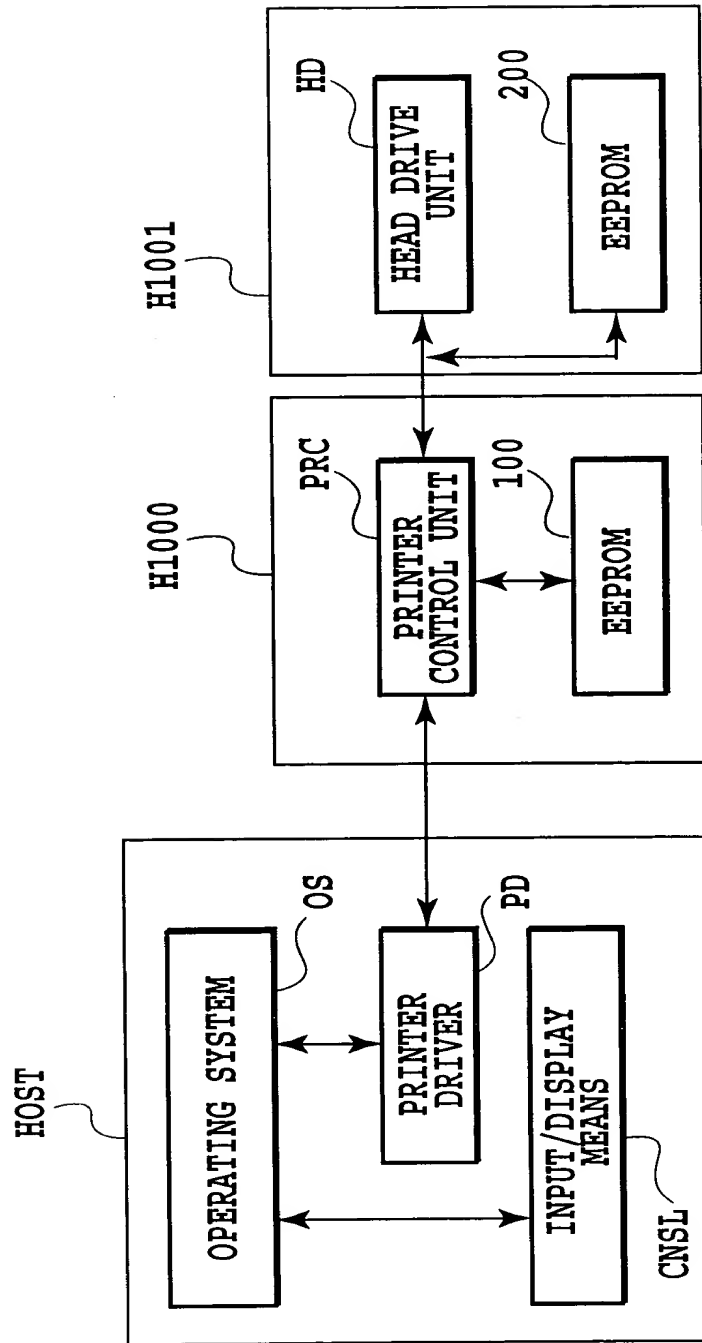


FIG.16B

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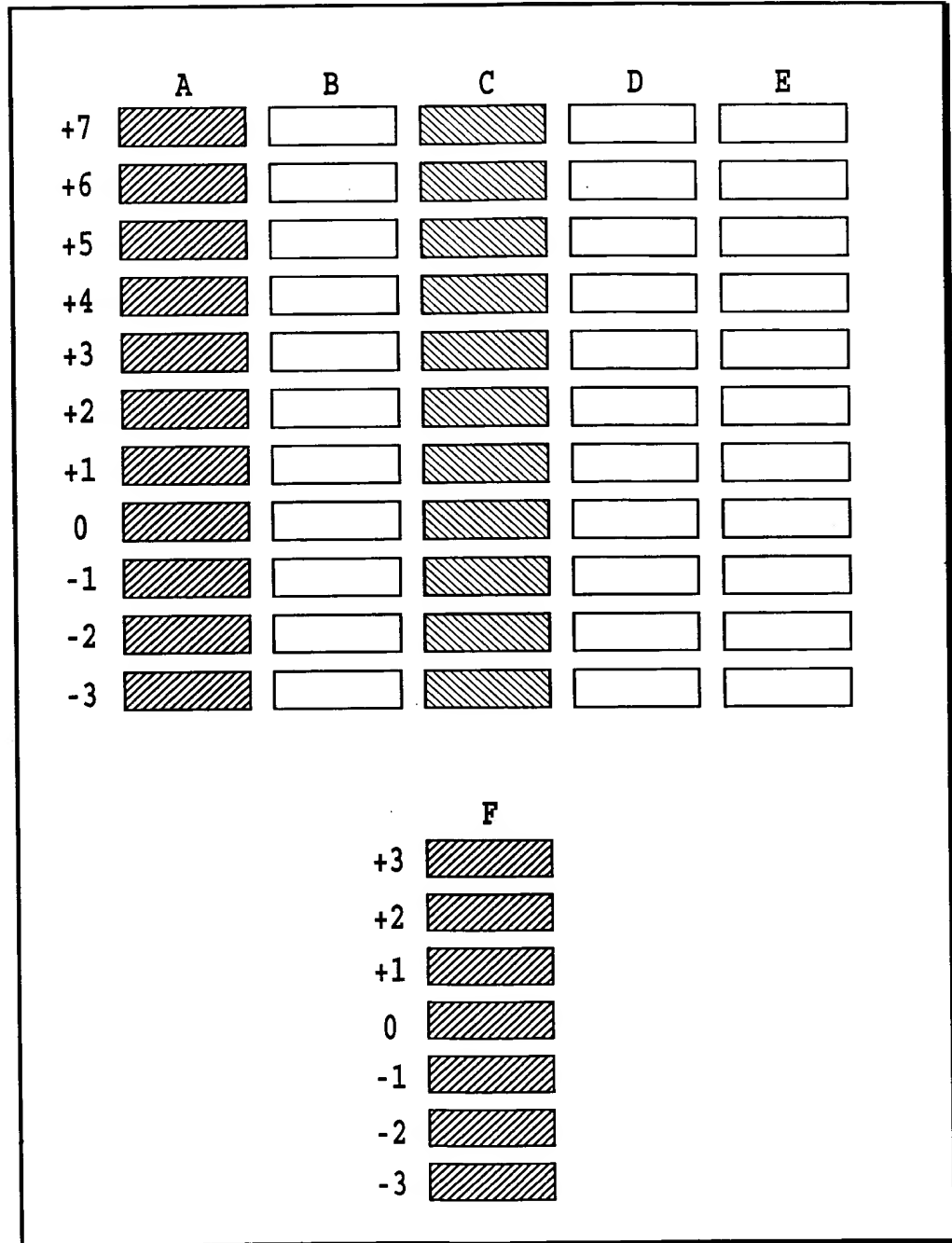


FIG.17

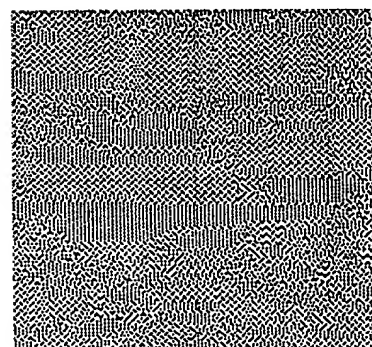
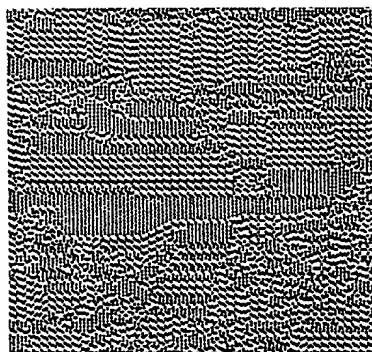
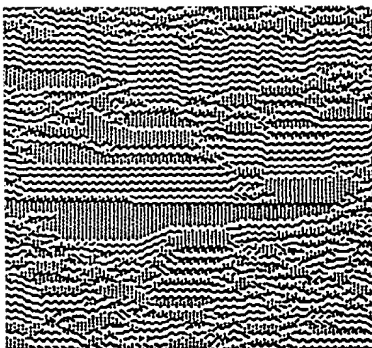


FIG.18A

FIG.18B

FIG.18C

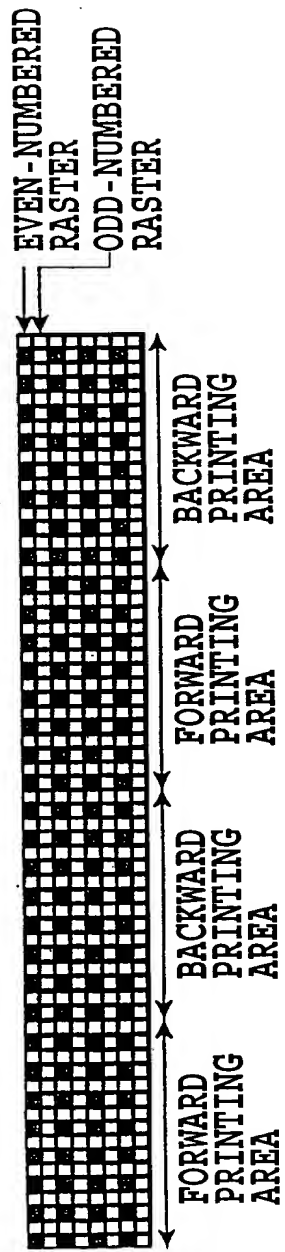


FIG.19A

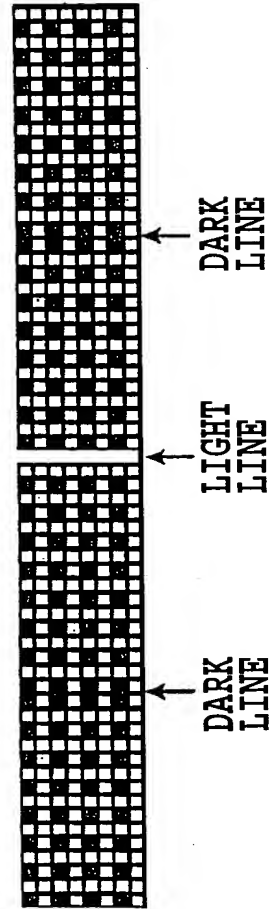


FIG.19B

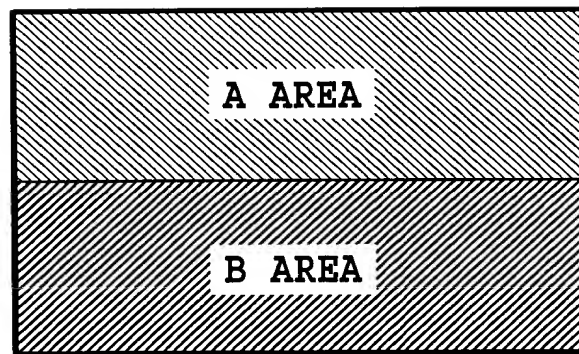


FIG.20

005180" CH46E960

FIG.21A

| | HQ | HS |
|----------------------|----|----|
| NORMAL POSITION | 3 | 4 |
| THICK SHEET POSITION | 4 | 6 |

UNIT (PIXEL)

FIG.21B

| | HQ | HS |
|----------------------|----|----|
| NORMAL POSITION | 3 | 5 |
| THICK SHEET POSITION | 4 | 7 |

UNIT (PIXEL)

FIG.21C

| | HQ | HS |
|----------------------|----|----|
| NORMAL POSITION | 3 | 5 |
| THICK SHEET POSITION | 4 | 7 |

UNIT (PIXEL)

FIG.21D

| | HQ | HS |
|----------------------|----|----|
| NORMAL POSITION | 3 | 6 |
| THICK SHEET POSITION | 4 | 8 |

UNIT (PIXEL)

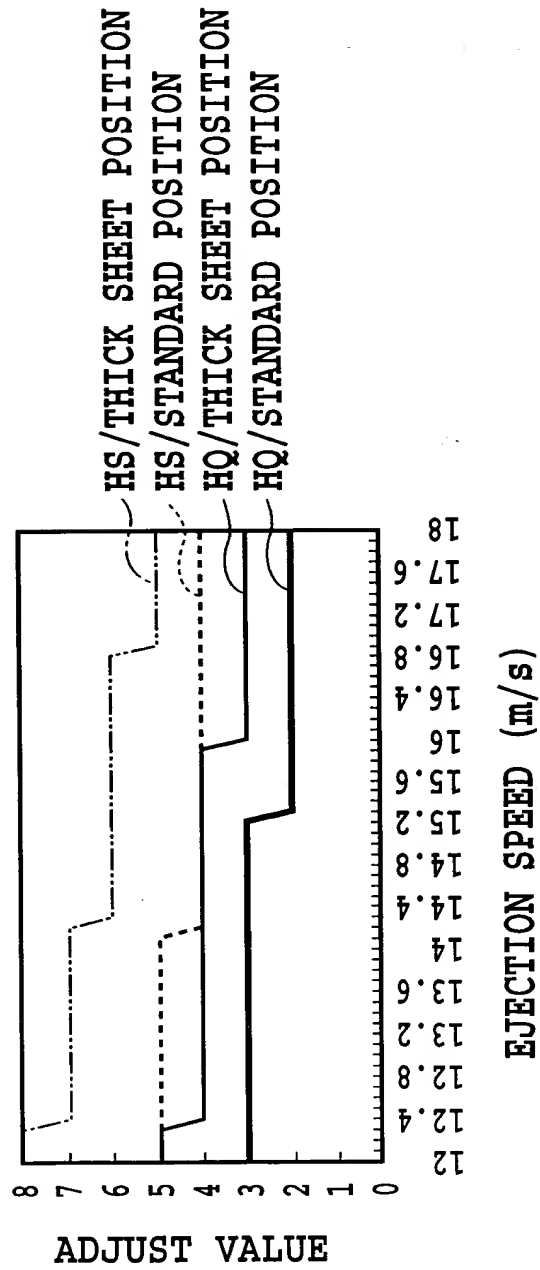


FIG.22

| EJECTION SPEED (m/s) | 12~12.4 | 12.4~14.2 | 14.2~15.3 | 15.3~16.0 | 16.0~16.9 | 16.9~18.0 |
|-------------------------------|---------|-----------|-----------|-----------|-----------|-----------|
| HS/THICK SHEET POSITION | 3 | 3 | 3 | 2 | 2 | 2 |
| HS/STANDARD POSITION | 5 | 4 | 4 | 4 | 3 | 3 |
| HQ/THICK SHEET POSITION | 5 | 4 | 4 | 4 | 4 | 4 |
| HQ/STANDARD POSITION | 8 | 7 | 6 | 6 | 6 | 5 |

UNIT (PIXEL)

FIG.23

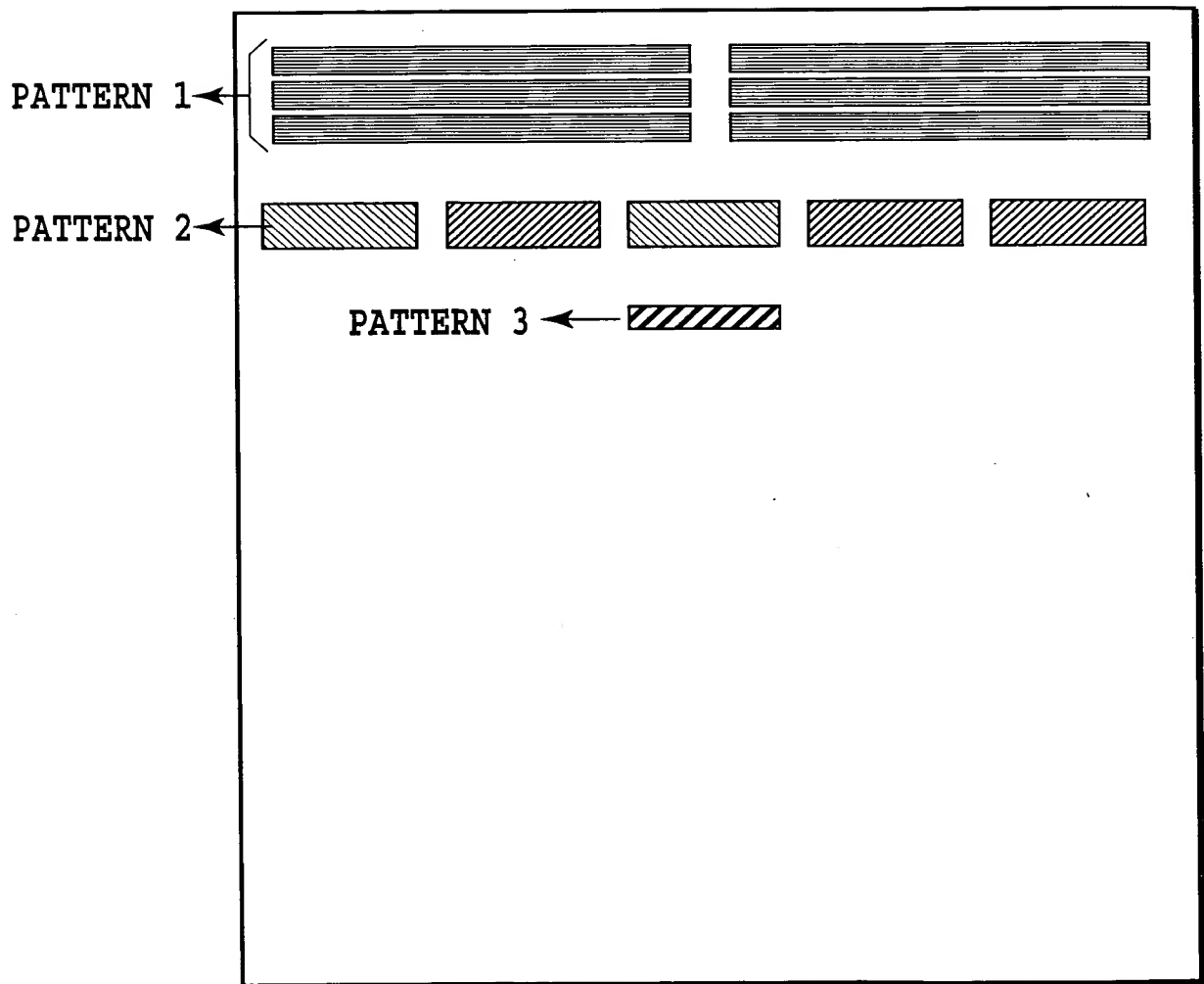
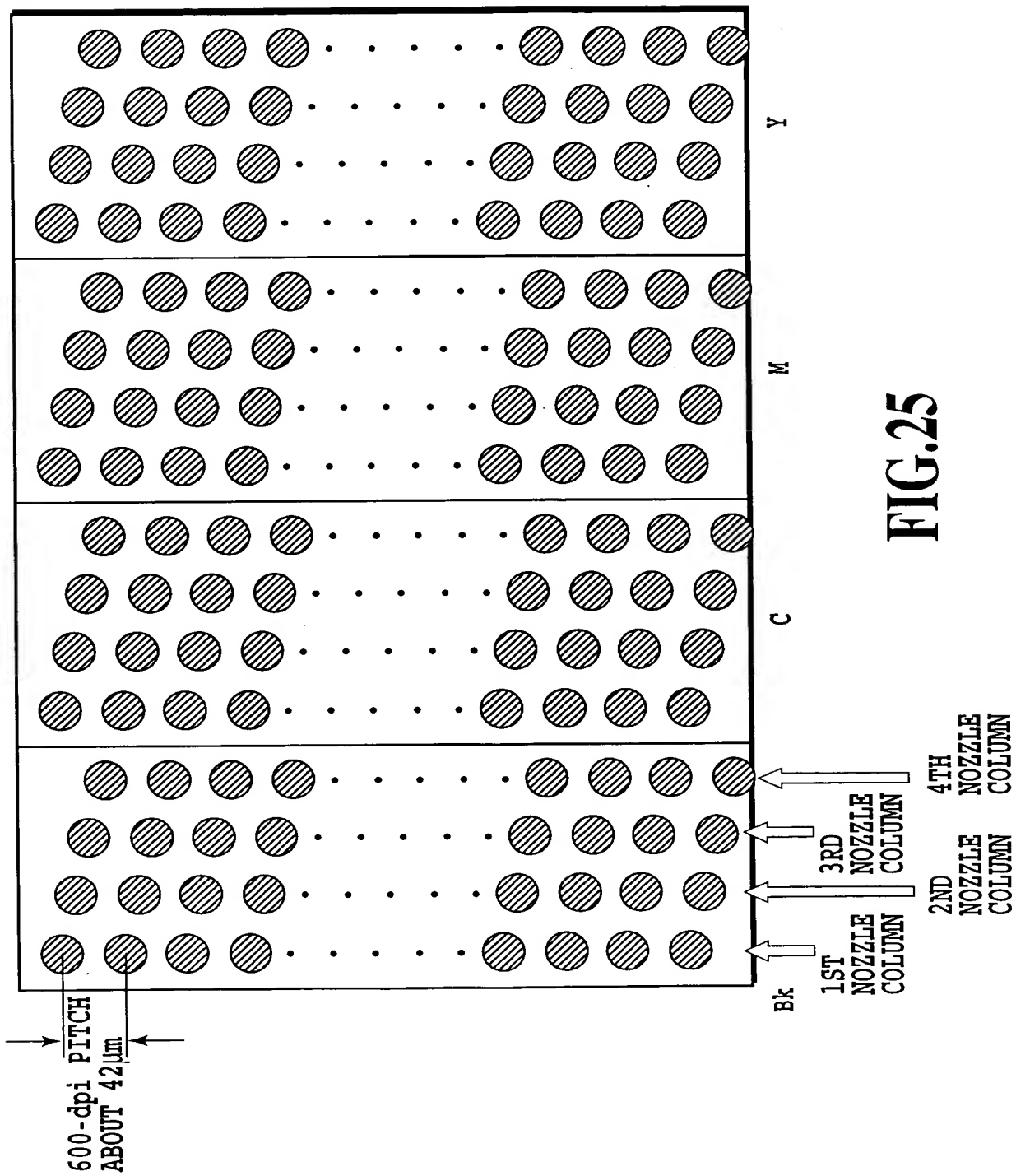


FIG.24



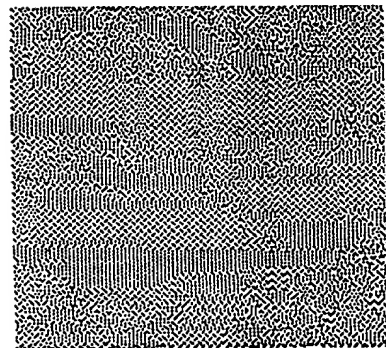


FIG. 26A

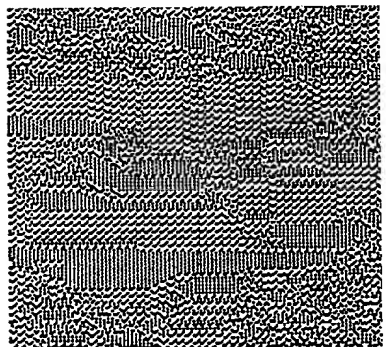


FIG. 26B

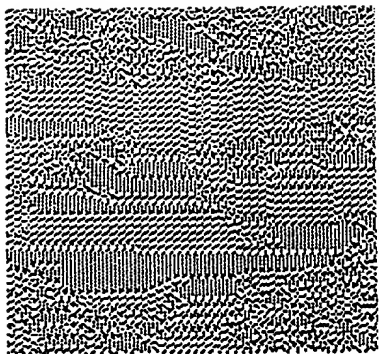


FIG. 26C

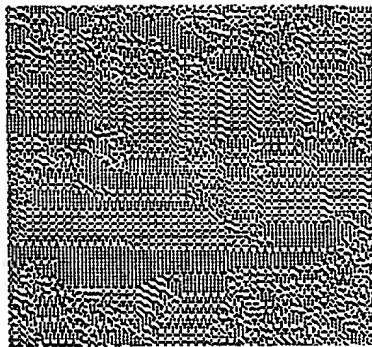


FIG. 26D



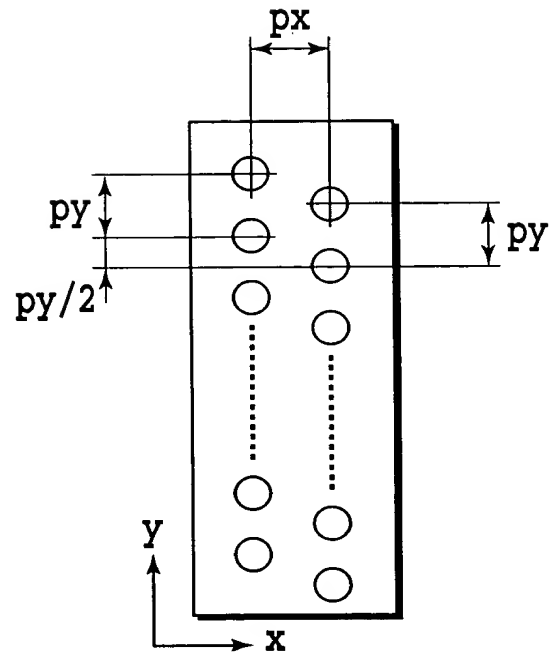


FIG. 28A

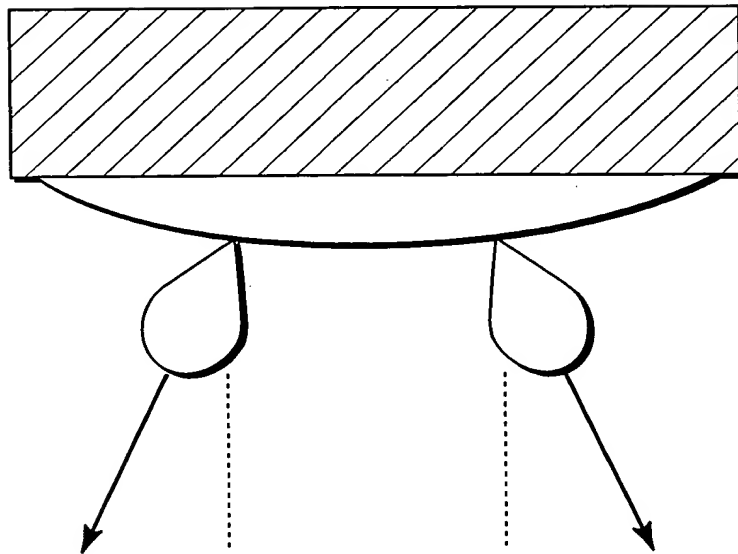


FIG. 28B

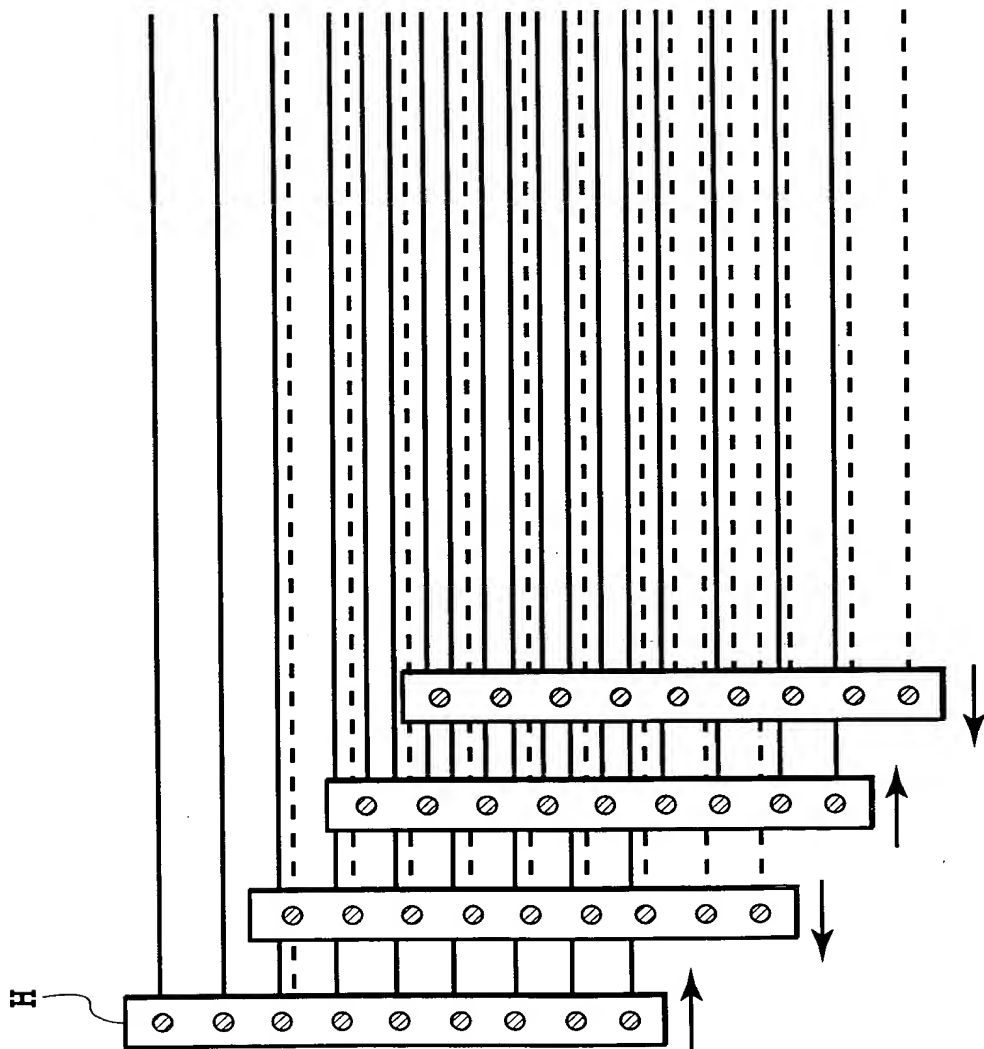


FIG.29

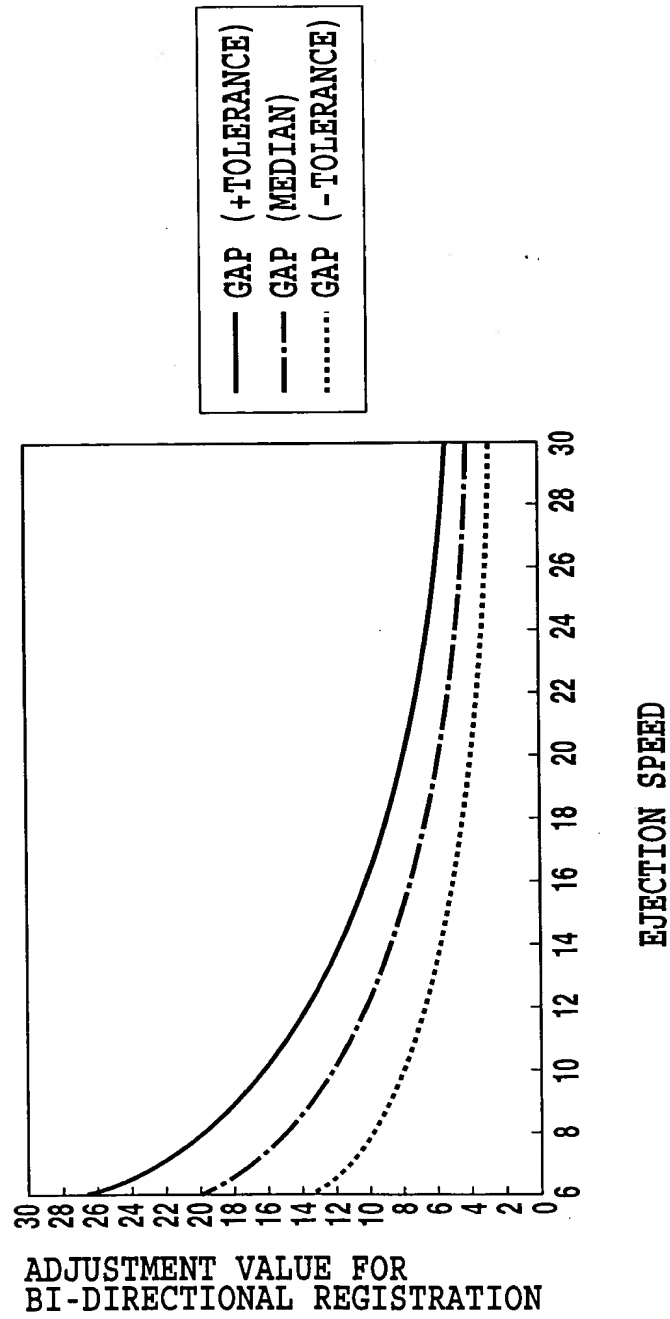


FIG.30

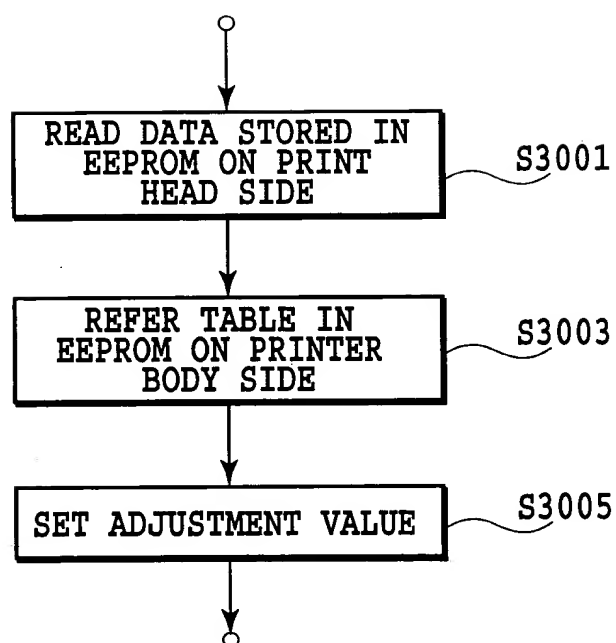


FIG.31

005180" 6425560

| EJECTION SPEED (m/s) | | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--|----|----|----|----|----|----|----|----|
| | | 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| GAP + TOLERANCE (MAXIMUM) GAP (MEDIAN) GAP - TOLERANCE (MINIMUM) | 01 | 16 | 15 | 14 | 13 | 8 | 11 | 10 |
| | 02 | 12 | 11 | 10 | 9 | 12 | 6 | 5 |
| | 03 | 8 | 7 | 7 | 6 | 6 | 5 | 5 |

FIG.32

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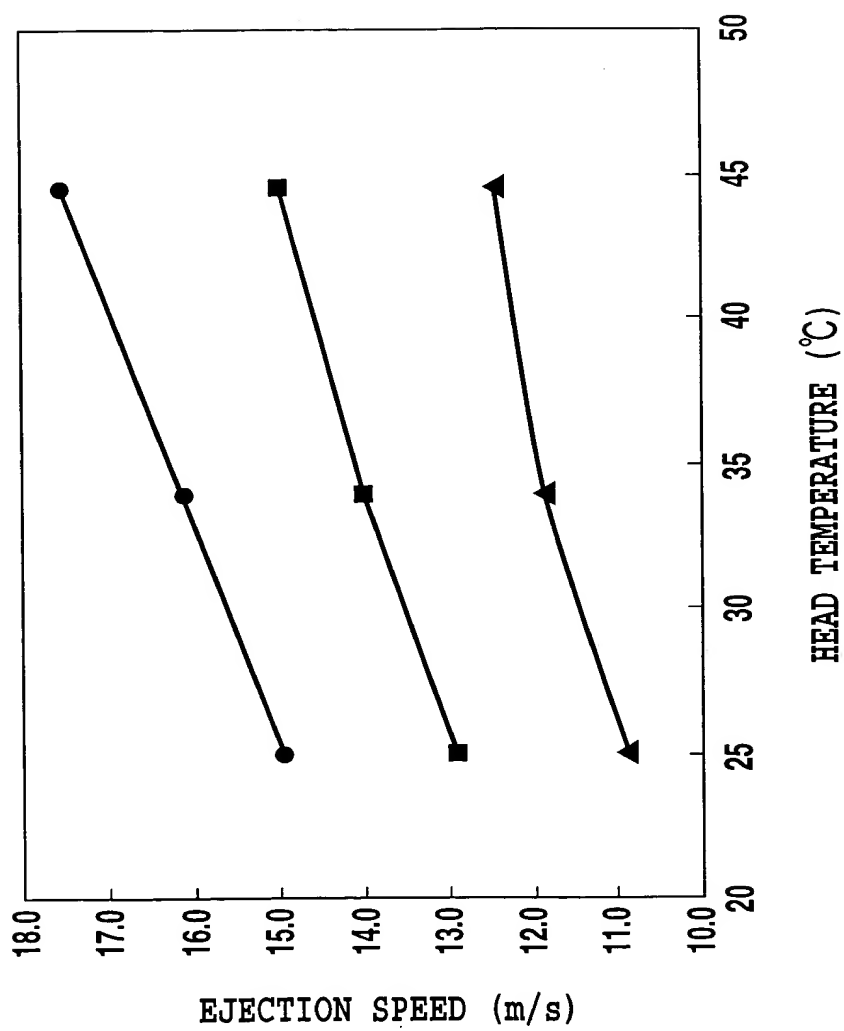


FIG.33

| INITIAL EJECTION SPEED (mm) | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-----------------------------|-------|----|----|----|----|----|----|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| HEAD TEMPERATURE (°C) | 20~30 | 02 | 03 | 04 | 05 | 06 | 07 |
| | 30~40 | 03 | 04 | 05 | 06 | 07 | 08 |
| | 40~50 | 04 | 05 | 06 | 07 | 08 | 09 |
| | 50~ | 05 | 06 | 07 | 08 | 09 | 0a |

FIG.34

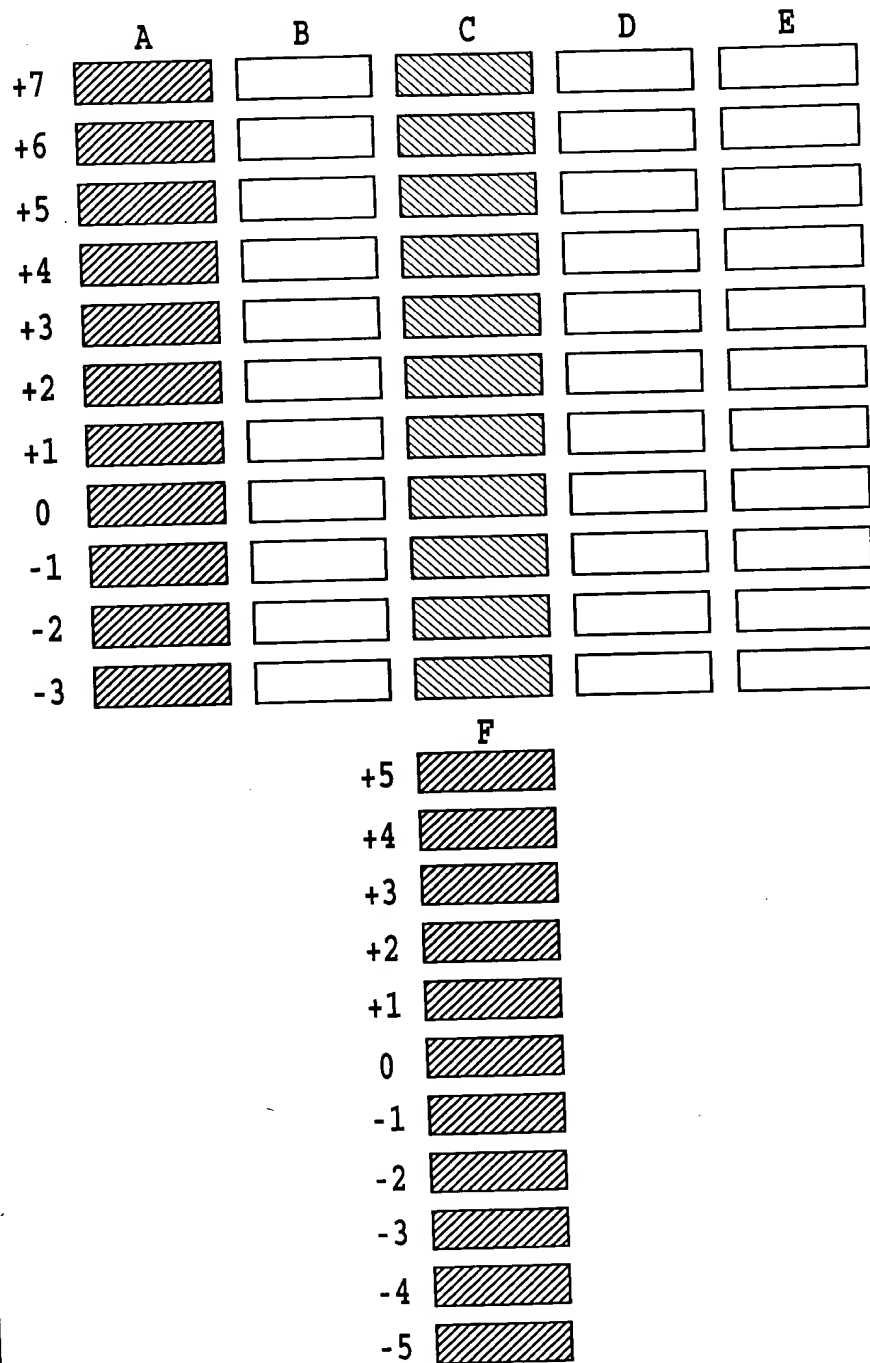


FIG.35

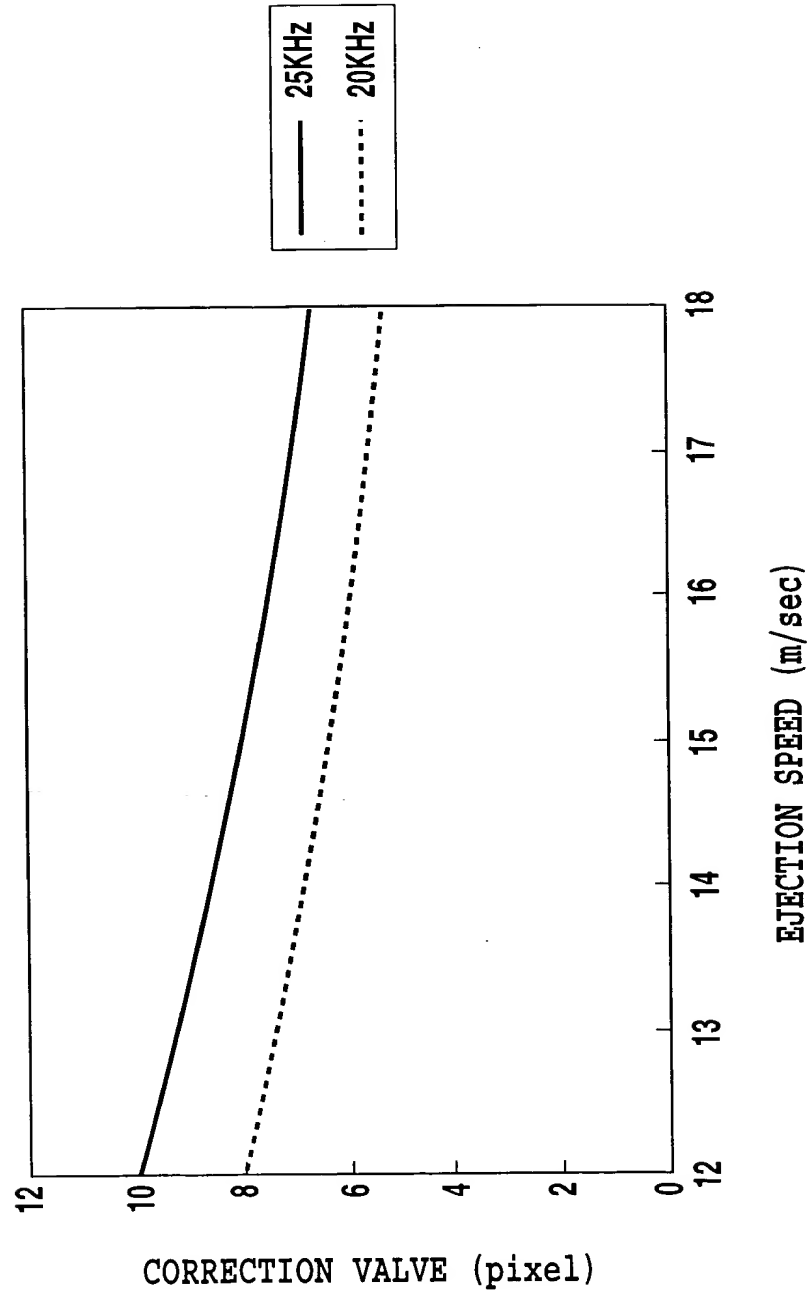


FIG.36

| EJECTION SPEED (m/s) | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|-----------------------|----|----|----|----|----|----|----|----|----|----|----|
| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0a | 0b |
| DRIVE FREQUENCY (KHz) | 25 | 21 | 11 | 10 | 9 | 8 | 8 | 7 | 7 | 6 | 6 |
| | 20 | 10 | 9 | 8 | 7 | 6 | 6 | 6 | 5 | 5 | 5 |

FIG.37